Hammerschmidt, Ron

From: Doster, Branden [branden.doster@dnr.mo.gov]
Sent: Monday, May 20, 2013 2:58 PM
To: Hammerschmidt, Ron
Cc: Schmidt, Aaron
Subject: FW: Info

Importance: High

Aaron asked that I send this to you.

Simple Statement:
Radiation readings and samples were collected near and around the West Lake Landfill and Bridgeton Sanitary Landfill sites on May 16, 2013. All readings and sample results were consistent with background levels.

Summary:
On May 16, 2013, staff visited the West Lake Landfill and Bridgeton Sanitary Landfill sites to take radiation readings. The predominant wind direction was to the North/Northeast with some variability. Odors where primarily detected towards the northeast perimeter of the landfill. Ambient radiation readings were collected to the south, southwest, east, and northeast of the sites using several types of equipment.

Readings were collected using:

- Ludlem Model 2221 Poratable Scaler Ratemeter with Model 44-10 Gamma Scintillator (2X2 NaI)
- Ludlum Model 19A MicroR Alarm Ratemeter
- Ludlum Model 2241-2 Digital Ratemeter with Model 4409 Pancake GM Probe

The only readings that were relatively higher than observed elsewhere around the sites were instantaneous readings collected to the south (upwind). To confirm the readings, a full one minute reading was collected with the same instrument and the relatively difference between it, and background was no longer evident. This is not an unusual encounter when using field instruments to try to compare radiological activity against background. This location was upwind of the site and is considered an appropriate background location for this study.

A few areas were selected for sampling where dust may have been deposited from the sites. Swipe samples were collected and analyzed using a Ludlum Model 2929 Scaler with Model 43-10-1 sample counter. The results were then compared to readings taken with the swipe counter empty (background). These sample results did not have greater radioactivity when compared to the "background" sample.